

<u>*</u>L3x3x4 2-1" \$ (ASTM F1554 Gr 36) Anchor bolts space to miss 3 x 3 x ³₈ x 9" long rebar. See Std. Spec's. 12"x 62" Exist. conc. T-Beam Diaph. conn. P _@ ³4'' ¢ H.S. bolts ^{|5}16'' ¢ holes in diaphragm conn. P., typ. (Finger tight)

ELEVATION AT ABUTMENTS

ABUTMENT BEARING

(12 Required)

INTERIOR GIR	DER	MOMENT TABLE
		0.5 Sp.
Is	(in4)	18611
Ic (n)	(in4)	42463
Ic (3n)	(in4)	31723
Ss	(in³)	792
Sc (n)	(in ³)	1058
Sc (3n)	(in³)	970
Q (k/ft.)	0.905
MP	(′k)	989
sl (k/ft.)	0.517
Ms2	('k)	565
ΜŁ	('k)	936
M (Imp)	(′k)	214
⁵ ₃ [M ½+ M(Imp)]	(′k)	1917
Ма	('k)	4512
Mu	('k)	5440
fs@non-comp((k.s.i.)	15.0
fs₽(comp) (k.s.i.)	7.0
fs ⁵ 3(4+Imp) ((k.s.i.)	21.7
fs (Overload) ((k.s.i.)	43.7

INTERIOR GIF	INTERIOR GIRDER REACTION TABLE				
		Abut.			
R₽	(k)	66.5			
R Ł	(k)	43.2			
Imp.	(k)	9.9			
R (Total)	(k)	119.6			

(k) 53.1

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).

Ic(n) and Sc(n) are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

Ic (3m) and Sc (3m) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38) VR is the maximum Live Load + Impact shear

range in span. $Ma \ (Applied \ Moment)=1.3[M \ 2 + Ms \ 2 + ^5_3(M \ + M(Imp))].$ The Plastic Moment capacity (Mu) is computed according to

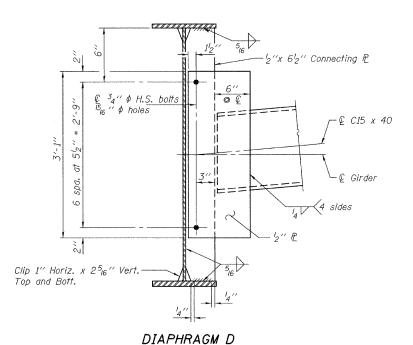
AASHTO 10.48.1 and 10.50.1.1. fs (Overload) is the sum of the stresses due to MP + MsP +53(M4 + M(Imp)).

fs (Total) (Non-compact section) is the sum of the stresses due to 1.3[M $^\circ$ 2 + Ms $^\circ$ 2 + 5 $^\circ$ 3(M $^\circ$ 2 + M(Imp))].

*TOP OF WEB ELEVATIONS

		© Brg. N. Abut.				
Beam 1	457.472	457.549				
Beam 2	457.620	457.696				
Beam 3	457.734	457.811				
Beam 4	457,734	457.811				
Beam 5	457.620	457.696				
Beam 6	457.472	457.549				

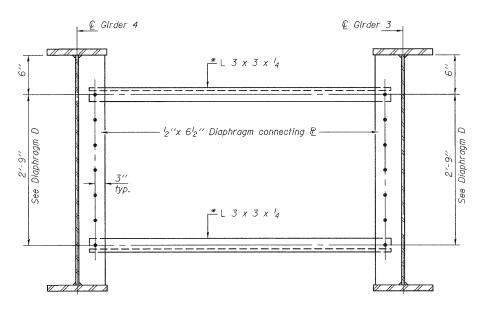
* For fabrication use only.



(25 Required)

TEMPORARY BRACING FOR STAGE I CONSTRUCTION

The horizontal dimension between the holes in the diaphragm. connection plate and the L 4 x 4 shall be measused in the field. The holes in the \bot 4 x 4 shall be field drilled at this dimension. Cost included with Furnishing & Erecting Structural Steel.



TEMPORARY BRACING FOR STAGE II CONSTRUCTION

(3 Required)

* \sqcup 3 x 3 x l_4 to be used as temporary bracing during Stage I and Stage II deck pour. Remove and replace with diaphragm D after Stage II deck pour is completed. Use between girder 3 and 4 only. Cost included with Furnishing & Erecting Structural Steel.

STRUCTURAL STEEL DETAILS STRUCTURE NO. 079-0050

	SHEET NO.13	F.A.P. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
		682	21BR,	21-I-1	RANDOLPH	77	52
	21 SHEETS				CONTRACT	NO. 76	126
		FED. RC	AD DIST. NO	ILLINOIS FED.	. AID PROJECT		

DESIGNED J.E. KRAMER

CHECKED P.E. COPPERNOL. DRAWN AMBER SEIBER

CHECKED GRA

0790050-76126.dgn 03/02/2010 2:34:32 PM